

COMPETENCE 11 ENGINE

C11	On a tanker vessel, what is the required combined capacity of the inert gas generating system as compared to the total capacity of all the cargo pumps which can be operated simultaneously?	1.25
C11	What percent of oxygen content by volume, must each inert gas system be designed to supply the cargo tanks with a gas, or mixture of gases?	5% or less
C11	What is the required gas supply capacity of an inert gas system?	125% of cargo pump capacity
C11	Each vessel designed to carry more than 49 passengers must have _____.	A collision bulkhead
C11	The difference between the initial trim of a vessel and the trim after anew load condition is known as _____.	change of trim
C11	Static water pressure of a hull of a ship is greatest at the _____.	Keel
C11	When securing the operation of an inert gas system the final step should be _____.	Secure the salt water supply to the scrubber

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C11	When the inert gas system is temporarily unable to maintain a positive pressure or an oxygen content less than 8% cargo operations should _____.	Be shut down immediately
C11	An inert gas system incorporating a separately fired inert gas generator shall be provided with visual and audible alarms to indicate failure of the power supply to the generator, the automatic control system and _____.	Insufficient fuel supply
C11	How does an inert gas system on a tanker function to prevent explosion in cargo tanks?	Inert gas dilutes the flammable vapor and air concentrations to keep them below the lower explosive limit
C11	An inert gas system is designed to reduce the possibility of tank explosion by _____.	Reducing the oxygen concentration below levels necessary for combustion
C11	Which of the following methods is used to supply inert gas from a flue gas system to the cargo tanks?	High capacity fan
C11	The component in an inert gas system use for cleaning the gas of solid and sulfur combustion products, while simultaneously cooling the inert gas, is called the _____.	Scrubber

C11	If a vessel loses its reserve buoyancy, it will _____.	most likely sink
C11	What will happen when a vessel loses its reserve buoyancy?	Most likely sink
C11	The purpose of the deck seal in an inner gas system is to prevent _____.	Flow reversal of tank vapors into the machinery space
C11	A vessel which is subjected to hogging _____.	Has its main deck plating under tensile stress.
C11	Excessive recirculation of inert gas is _____.	Undesirable and it may lead to high oxygen content of the inert gas
C11	Aboard tankers, the term Category "A" machinery Space, as defined by regulations means any space including trunks and ducts to that space containing _____. I, Internal combustion machinery used for main propulsion II. One or more oil fired boilers or oil fuel units III. Internal combustion machinery used for purposes other than propulsion where the	I, II & III

	total collective power is at least 500 brake horsepower	
C11	Corrosion resistant material and non-corrodible material will include which of the following _____. I. Plastics II. Silver III. Copper nickel	I, II & III
C11	Which of the following methods of finished applications is/are considered to be satisfactory for resisting corrosion? I. Electroplating with cadmium II. Sherardizing III. Galvanizing	I, II & III
	Corrosion resistant material and non-corrodible material will include which of the following _____. I. Brass II. Copper nickel III. Plastics	I, II & III
C11	The blowers of an inert gas generation system aboard a tanker, will be automatically secured if _____. I. Normal water supply at the water seal is lost II. The temperature of the inert gas being delivered to	I, II & III

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	the cargo tanks is more than 150°F III. The cooling water supply to the scrubbers is lost	
C11	The function of the scrubber in an inert gas system is to _____. I. Cool the gases II. Remove solids from the gases III. Remove sulfur compounds from the gases	I, II & III
C11	Control of fire should be addressed _____.	Continue loading as this is normal procedure
C11	Where are self-closing doors required on a vessel?	in each stair tower
C11	WHAT HAPPENS WHEN YOU ADD WEIGHT TO A VESSEL	reduce reserve buoyancy
C11	what will be the result of counter flooding into empty tanks, if the cause of severe list, or trim is due to off-center ballast	decrease list or trim
c11	Flooding of any ship's compartment, resulting in a serious loss of reserve buoyancy, will always _____.	decrease ship stability

	Stability is determined principally by the location of two points in a vessel: The center of buoyancy and the _____.	center of gravity
	The difference between the forward and the aft drafts of a vessel would be the _____.	Trim
	Yawing is the angular motion of the vessel about what axis?	Vertical
	The value of the maximum righting arm is dependent upon the position of the center of buoyancy and the _____.	position of the center of gravity
	Which of the listed functions is the purpose of a gas scrubber in an inert gas generation system?	Cools the inert gas
	The purpose of swash bulkheads is to _____.	Reduce liquid movement and surging within a tank
	When a vessel is inclined, the tendency for it to return to its original position is caused by the _____.	movement of the center of buoyancy toward the low side of the vessel

	The collision bulkhead is located _____.	As the first watertight bulkhead aft of the bow in the ship
	Penetrations and openings in watertight bulkheads in a vessel of less than 100 gross tons must _____.	Be kept as high and as far inboard as practicable.
	Which of the following conditions will result in an automatic shutdown of the flue gas inert gas system ?	High temperature gas discharge from inert gas blowers
	Vertical support members used to strengthen bulkheads are called _____.	Stiffeners
	The result of a blow delivered by a heavy sea causing rapid vibrations of the elastic portions of the ships hull is identified as _____.	Pounding
	The double bottom in a vessel is a space comprised of _____.	Compartments between the inner and outer bottoms
	An inert gas system on a tanker should be used to _____.	Dilute tank atmospheres to keep gas concentrations below the lower explosive limits

	The primary function of a “flue gas type” inert gas system is to _____.	Supply conditioned gas with reduced oxygen content
	Which of the following describes the purpose of a striker or doubler plate?	Provides landing surface for the sounding bob of a tank sounding
	Free surface effect occurring in partially filled cargo or fuel storage tanks on board a vessel should be avoided to _____.	maintain vessel stability
	When flooding occurs in a damaged vessel, reserve buoyancy _____.	Decrease
c11	When the height of the metacenter is the same as the height of the center of gravity, the upright equilibrium position is _____.	Neutral
c11	What standard mathematical formula is commonly used to calculate a vessels waterplane area for stability purposes?	Simpson Rule
c11	Angular motion about the vertical axis of a vessel is known as _____.	Yaw

c11	The reserve buoyancy of a ship consists of _____.	the part of the enclosed and watertight portion of a vessel above the waterline
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